DEPARTMENT of ENVIRONMENTAL SERVICES
Water Division - Watershed Management Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake:	EAST INLET	Lake Area (ha):	17.52
Town:	PITTSBURG	Maximum depth (m):	2.1
County:	Coos	Mean depth (m):	0.9
River Basin:	Connecticut	Volume (m^3):	159000
Latitude:	45°09'37" N	Relative depth:	0.5
Longitude:	71°10'54" W	Shore configuration:	3.03
Elevation (ft):	1935	Areal water load (m/yr):	14.86
Shore length (m):	4500	Flushing rate (yr^{-1}):	16.40
Watershed area (ha):	341.6	P retention coeff.:	0.51
% watershed ponded:	0.5	Lake type:	natural w/dam

BIOLOGICAL:		19 March 2001	23 August 2000
DOM. PHYTOPLANKTON (% TOTAL)	#1	(NO PLANKTON	DINOBRYON 65%
	#2	SAMPLE COLLECTED)	SYNURA 20%
	#3		
PHYTOPLANKTON ABUNDANCE (units/mL)			
CHLOROPHYLL-A (µg/L)			3.63
DOM. ZOOPLANKTON (% TOTAL)	#1		POLYARTHRA 41%
	#2		
	#3		
ROTIFERS/LITER			157
MICROCRUSTACEA/LITER			52
ZOOPLANKTON ABUNDANCE (#/L)			304
VASCULAR PLANT ABUNDANCE			Very abundant
SECCHI DISK TRANSPARENCY (m)			1.4
BOTTOM DISSOLVED OXYGEN (mg/L)			7.8
BACTERIA (E. coli, #/100 ml)	#1		2
	#2		
	#3		

SUMMER THERMAL STRATIFICATION:

not stratified

Depth of thermocline (m): None
Hypolimnion volume (m^3) : None
Anoxic volume (m^3) : None

CHEMICAL:

Lake: EAST INLET
Town: PITTSBURG

	19 March 2001		23 August 2000		
DEPTH (m)	1.0		1.5		
pH (units)	6.6		6.8		
A.N.C. (Alkalinity)	16.3		11.9		
NITRATE NITROGEN	0.26		< 0.05		
TOTAL KJELDAHL NITROGEN	0.40		0.25		
TOTAL PHOSPHORUS	0.009		0.015		
CONDUCTIVITY (μmhos/cm)	47.7		35.0		
APPARENT COLOR (cpu)			90		
MAGNESIUM			1.07		
CALCIUM			4.5		
SODIUM			1.1		
POTASSIUM			0.15		
CHLORIDE	< 2		< 2		
SULFATE	5		2		
TN : TP	73		17		
CALCITE SATURATION INDEX					

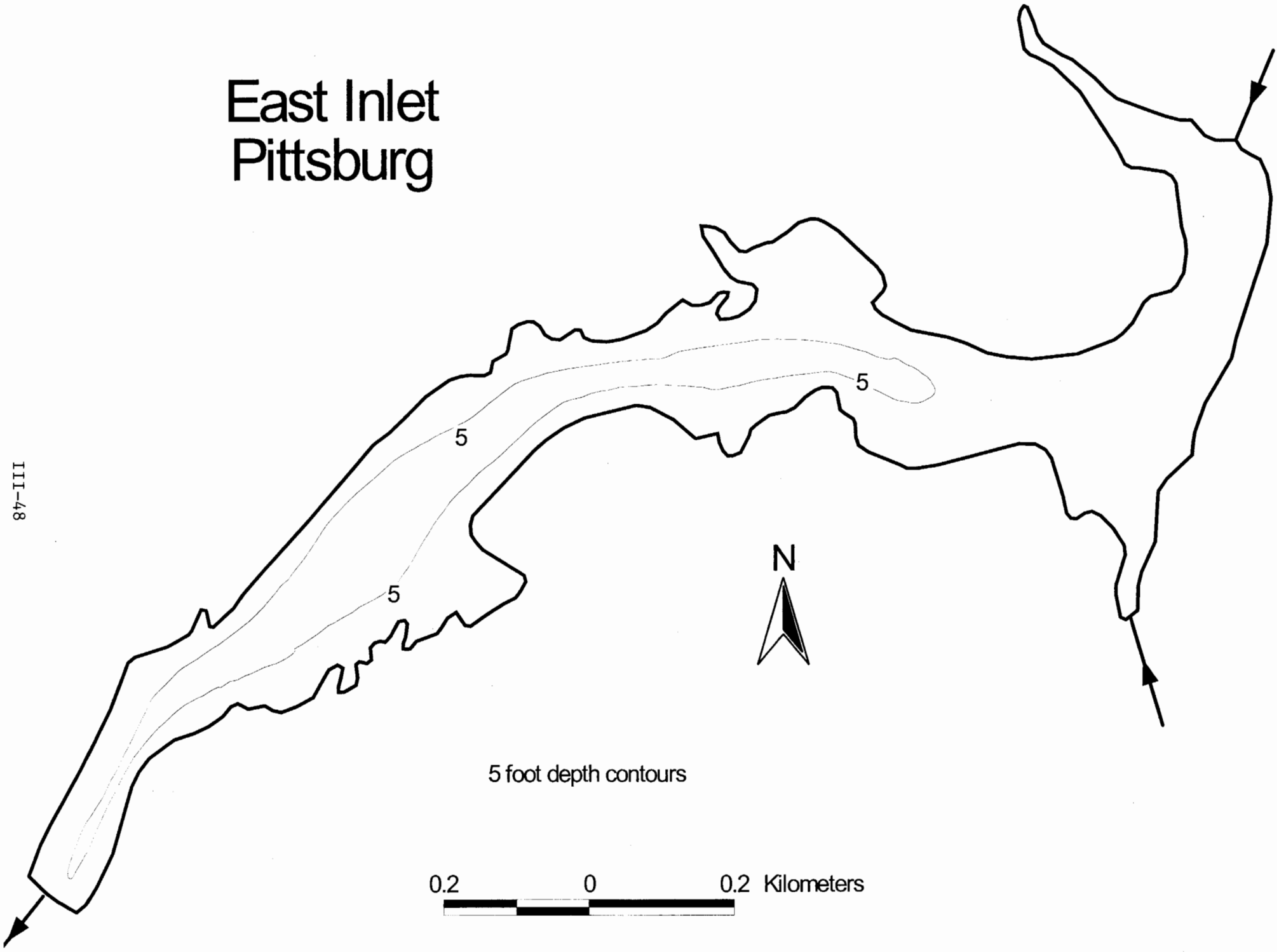
All results in mg/L unless indicated otherwise

TROPHIC CLASSIFICATION: 2000

D.O.	S.D.	PLANT	CHL	TOTAL	CLASS
**	4	6	0	10	Eutro.

COMMENTS:

1. Gravel launch site with parking was located adjacent to the dam.
2. Most of the pond was less than 5 feet. A channel (original stream bed) was present, as evidenced by erratic depth changes, but was impossible to sound accurately because of abundant plant growth.


East Inlet
Pittsburg
5
5
5
N
5 foot depth contours
0.2
0
0.2 Kilometers

FIELD DATA SHEET

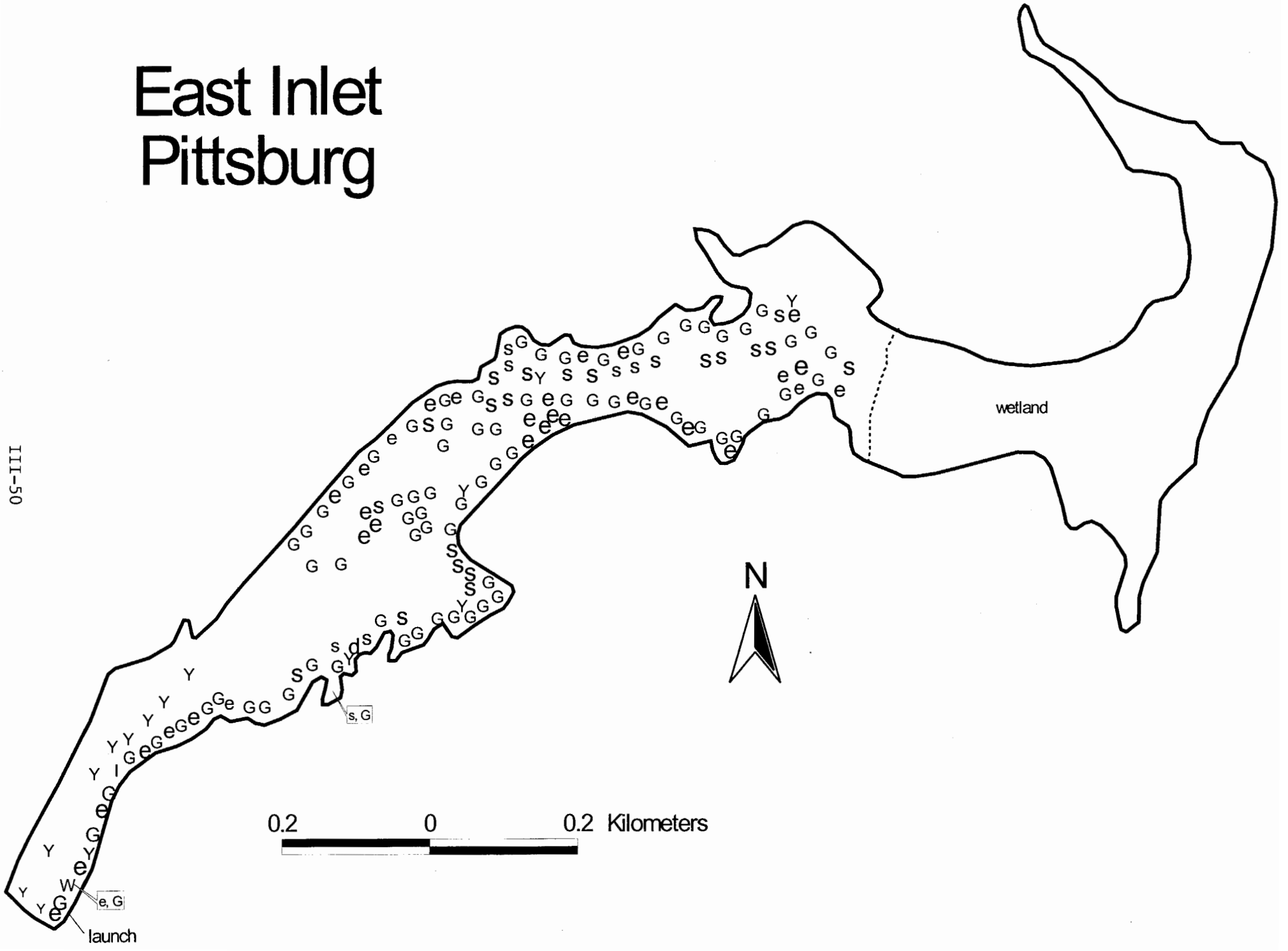
LAKE: EAST INLET
TOWN: PITTSBURG
DATE: 08/23/2000
WEATHER: overcast; calm

	DEPTH (M)	TEMP (°C)	*DISSOLVED OXYGEN	OXYGEN SATURATION
	0.1	17.2	8.2	85 %
	1.0	16.2	8.1	83 %
	1.5	15.3	7.8	78 %

SECCHI DISK (m): 1.4
BOTTOM DEPTH (m): 1.9
TIME: 1000

COMMENTS:

*Dissolved oxygen values are in mg/L


East Inlet
Pittsburg
wetland
N
0.2
0
0.2 Kilometers
launch
e, G
s, G
III-50

AQUATIC PLANT SURVEY

LAKE: EAST INLET TOWN: PITTSBURG DATE: 08/23/2000

Key	PLANT NAME		ABUNDANCE
	GENERIC	COMMON	
e	Eleocharis	Spike rush	Abundant
Y	Nuphar	Yellow water lily	Common/Abun
G	Gramineae	Grass family	Very abundant
W	Potamogeton	Pondweed	Scattered
S	Sparganium	Bur reed	Common
I	Iris	Iris	Sparse
d	Dulichium arundinaceum	Three-way sedge	Sparse
O	Elodea nuttallii	Waterweed	Sparse
X		Sterile thread-like leaf	Common

OVERALL ABUNDANCE: Very abundant

GENERAL OBSERVATIONS:

1. Upper third of the pond was a wetland of grasses and sedges – impossible to navigate by boat.
2. Entire shoreline was covered with grasses and spike rush with pondweeds, yellow lilies and bur reed mixed in.